

COMBINED DECLARATION	FOR PATENT APPLICATION	AND POWER OF ATTORNEY U.S. DEPARTMENT OF C
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OMMERCE Patent and Trademark Office ATTORNEY DOCKET NO.: 053785-5043 As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: ETCHANT AND ARRAY SUBSTRATE HAVING COPPER LINES ETCHED BY THE ETCHANT The specification of which:ached hereto; or was filed as United States application Serial No. ______ on _____ and was amended on _____ (if applicable); or was filed as PCT international application Number _____ on ____ and was amended under PCT Article 19 _____(if applicable) Thereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. Tacknowledge the duty to disclose to the U.S. Patent and Trademark Office information which is material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations, §1.56. I hereby claim foreign priority benefits under Title 35. United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate or \$365(a) of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed: PRIOR FOREIGN APPLICATION(S): PRIORITY CLAIMED DATE OF FILING COUNTRY APPLICATION NUMBER (day, month, year) (if PCT, indicate PCT) x Yos 20 December 2000 2000-79355 Korea [] Yes [] Yes [] Yes

I-WA/1716775 1

•	Combined D		es Reference to PCT In	of Attorney - (Continued international Applications) CKET NO.: 053785-5043
I hereby claim the benefits under Ti			provisional applicatio	n(a) listed below.
	U.S. PROVISION	NAL APPLICATIONS		
U.S. PROVISIONAL APPLICATION NO.			U.S. FILING DATE	
patentability of claims presented in available between the filing date of				
PRIOR U.S. APPLICATIONS OF	l PCT INTERNATIONAL AP	PLICATIONS DESIGN	ATING THE U.S. F	OR BENEFIT
U.S. APPLICATIONS		STATUS (Check One)		
U.S. APPLICATION NO.		'		•
U.S. AIT CICATION 140.	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
Just Affection No.		PATENTED	PENDING	<u> </u>
Q.S. ATTECATION NO.		PATENTED	PENDING	<u> </u>
U.S. ATTICATION NO.		PATENTED	PENDING	<u> </u>

POWER OF ATTORNEY: As a named inventor, I hereby appoint the registered practitioners of Morgan, Lewis & Bockius LLP included in the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number.

Customer Number: 009629

Direct Telephone Calls To:

202-467-7501

Combined Declaration For Patent Application and Power of Attorney - (Continued)
(includes Reference to PCT International Applications)
ATTORNEY DOCKET NO.: 053785-5048

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are pointed by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Ø1

FULL NAME OF FIRST INVENTOR	Gyoo-Chul JO	
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FIRST INVENTOR'S SIGN	ATURE	DATE
	Jo Gy oo Chul	>00/. /2 · /0
12 12 12 12 12 12 12 12 12 12 12 12 12 1	J6 4700 5000C	
FULL NAME OF	Ki-Sung CHAE	. 1
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La		
•		DATE
SECOND INVENTOR'S SI	GNATURE	DATE
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Listing of Inventors Continued on attached page(s) [] Yes [X] No



COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

U.S. DEPARTMENT OF COMMERCE

		U.	S. DEPARTMENT OF COMMERCE Patent and Trademark Office
		ATTO	
As a below named inventor, I her	eby declare that:		
My residence, post office address	and citizenship are as stated below	next to my nanie,	· ! - !
believe I am the original, first ar	nd sole inventor (if only one name is atter which is claimed and for which	listed below) or an original, fir a patent is sought on the invent	st and joint inventor (if plural names
	ETCHANT AND ARRAY COPPER LINES ETCH	SUBSTRATE HAVING	
•	COFFER LINES ETCH	ED BI THE ETCHANT	
The specification of which:			
s attached hereto; or			
was filed as United States applica	tion Serial No on	and was amended o	n(if applicable); or
hereby state that I have reviewed any amendment referred to above acknowledge the duty to disclospresented in this application in act hereby claim forcign priority be inventor's certificate or §365(a) America listed below and have also application(s) designating at least	d and understand the contents of the eto the U.S. Patent and Trademark (cordance with Title 37, Code of Fednefits under Title 35, United States (code on Fednefits and PCT international application)	above-identified specification, in the properties of the propertie	erial to the patentability of claims any foreign application(s) for patent untry other than the United States of a certificate or any PCT international
	PRIOR FOREIGN	APPLICATION(S):	
COUNTRY (if PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
Korea	2000-79355	20 December 2000	[x] Yes
			[]Yes
			[]Yes
			[]Yes

Combined Declaration For Patent Application and Power of Attorney - (Continued)

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		(includ		nternational Applications) CKET NO.: 053785-5043
I hereby claim the benefits under Ti	tle 35. United States Code 8119	(e) of any United State	s provisional application	on(s) listed below.
t hereby claim the benefits under Th		AL APPLICATIONS		
U.S. PROVISIONAL AP			U.S. FILING DATE	
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evaliable between the filing date of PRIOR U.S. APPLICATIONS OF				
U.S. APPLICATIONS		STATUS (Check One)		
U.S. APPLICATION NO.	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
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POWER OF ATTORNEY: As a included in the Customer Number portice connected therewith, and dir Customer Number: 009629	provided below to prosecute this	application and to trai	nsact all business in the	is & Bockius LLP: Patent and Trademark
Direct Telephone Calls To:				:
	202	467 - 750]		•

Combined Declaration For Patent Application and Power of Attorney - (Continued)
(includes Reference to PCT International Applications)
ATTORNEY DOCKET NO.: 053785-5048

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false attatements may jeopardize the validity of the application or any patent issuing thereon.

Ø1

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SECOND INVENTOR'S ST	GNATURE	DATE
	Ki-Sung CHAE	2001.12.11

Listing of Inventors Continued on attached page(s) [] Yes [X] No